

FIG. 1

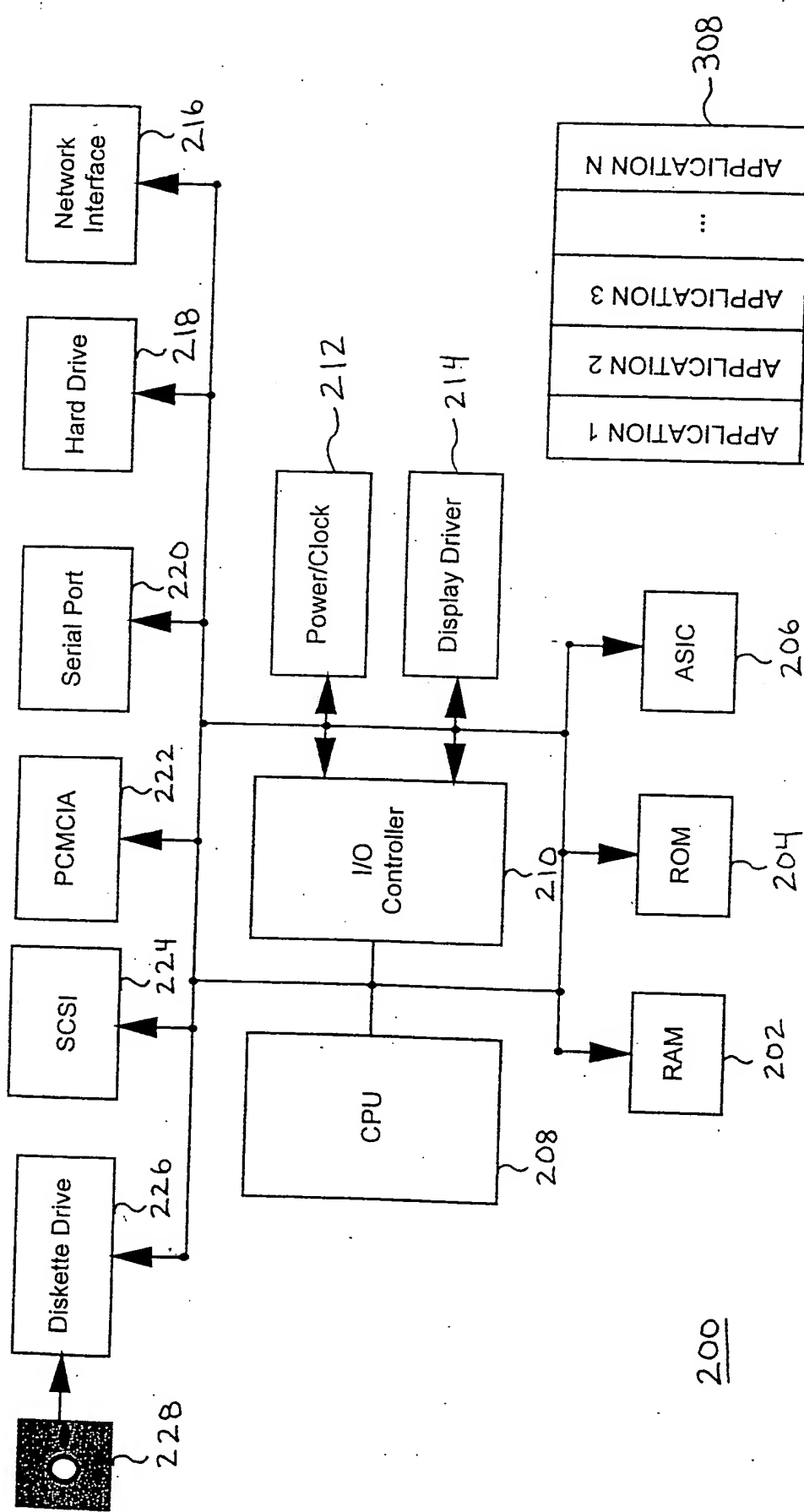


FIG. 2

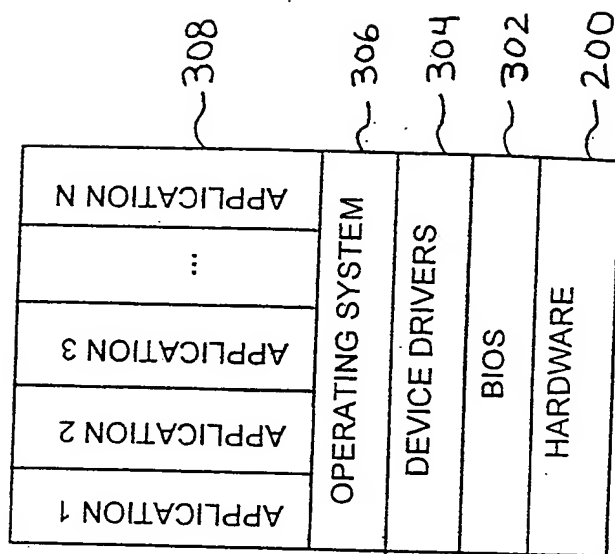


FIG. 3

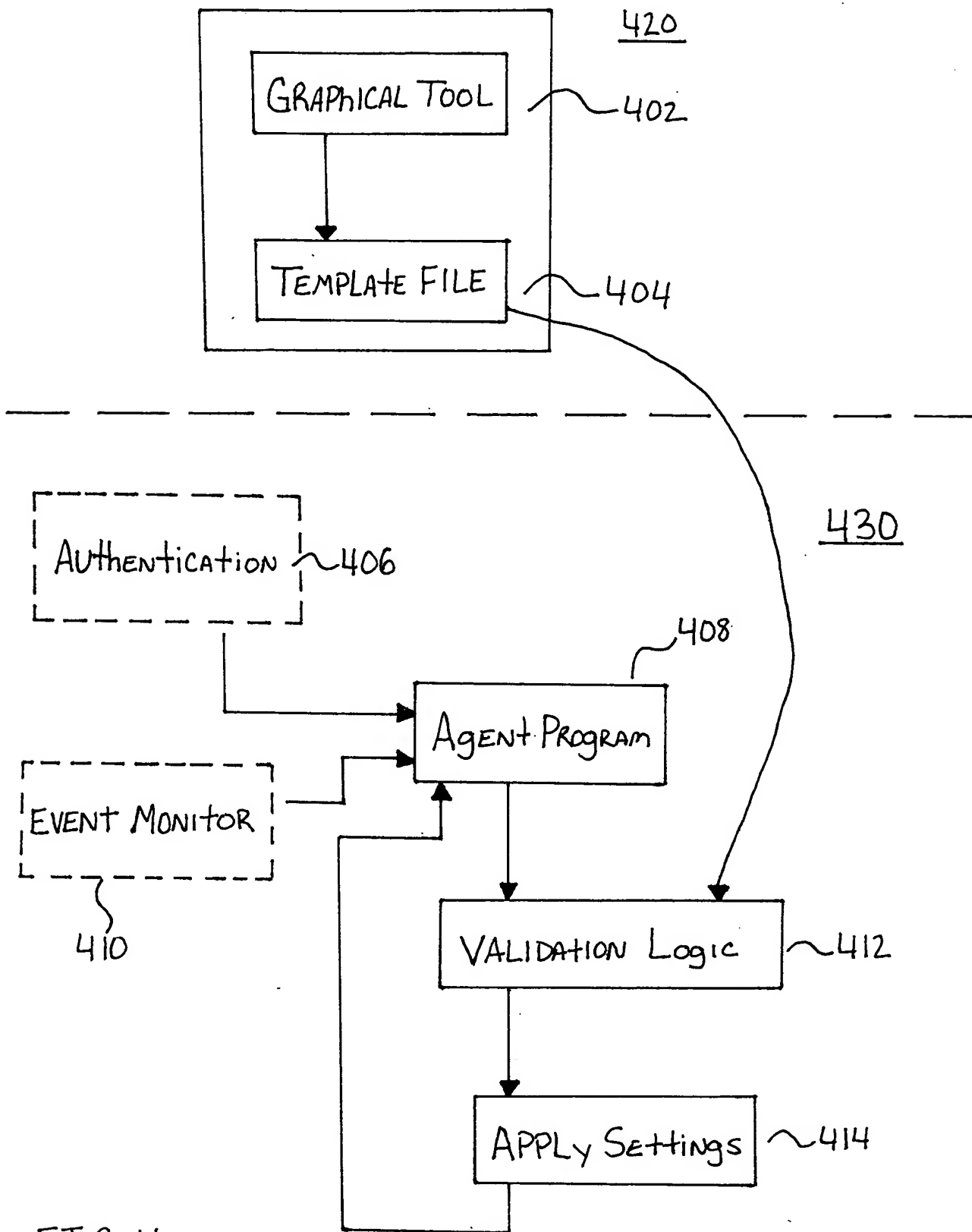


FIG. 4

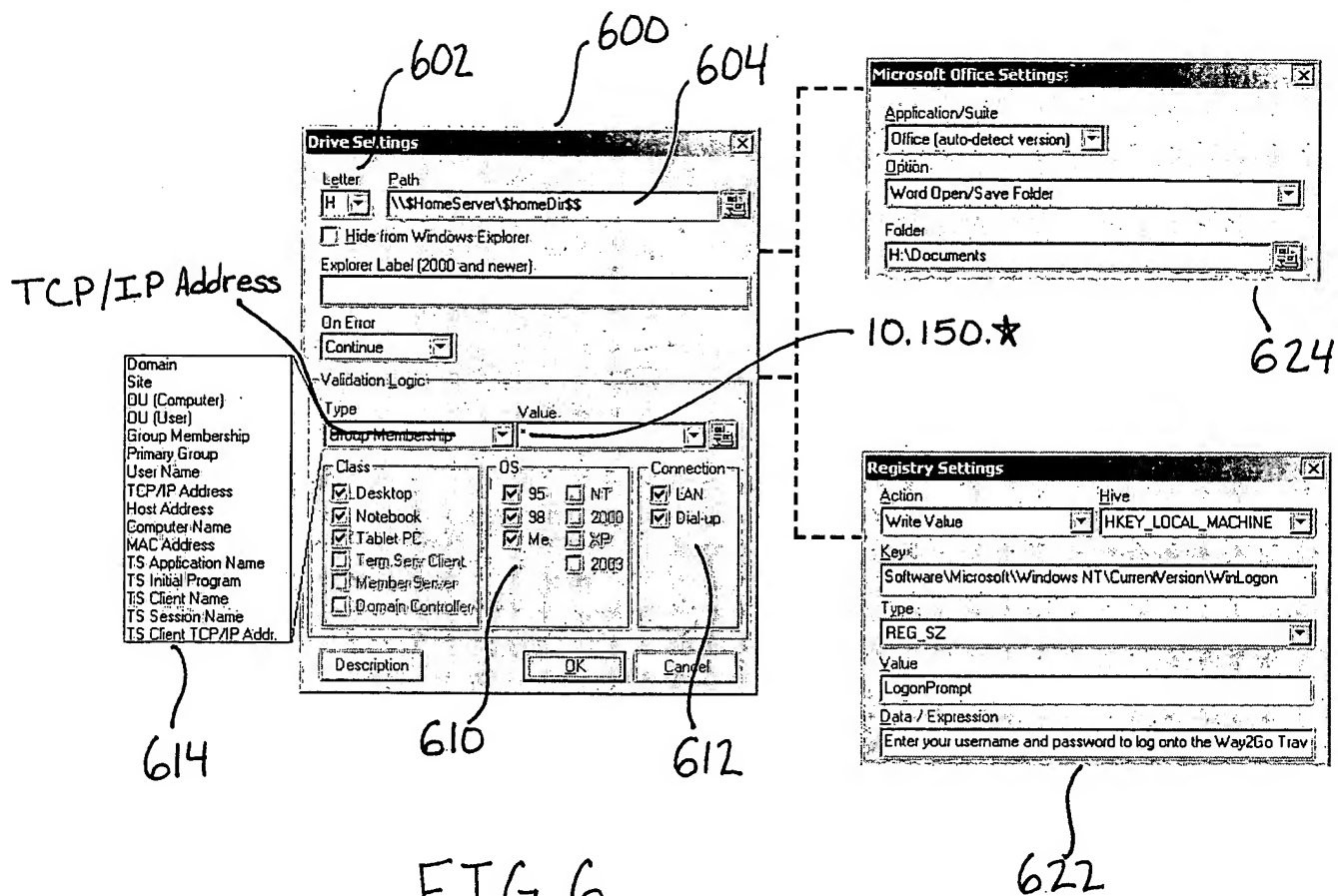
507

508 506 504 510

502

Domain Site OU (Computer) OU (User) Group Membership Primary Group User Name TCP/IP Address Host Address Computer Name MAC Address TS Application Name TS Initial Program TS Client Name TS Session Name TS Client TCP/IP Addr.	Validation Logic Type Value <div style="border: 1px solid black; padding: 5px;"> <div>Class</div> <div>OS</div> <div>Connection</div> <div> <input type="checkbox"/> Desktop <input type="checkbox"/> Notebook <input type="checkbox"/> Tablet PC <input type="checkbox"/> Term Serv Client <input type="checkbox"/> Member Server <input type="checkbox"/> Domain Controller </div> <div> <input type="checkbox"/> 95 <input type="checkbox"/> 98 <input type="checkbox"/> Me <input type="checkbox"/> NT <input type="checkbox"/> 2000 <input type="checkbox"/> XP <input type="checkbox"/> 2003 </div> <div> <input type="checkbox"/> LAN <input type="checkbox"/> Dial-up </div> </div>
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FIG. 5



View:Pane

Application Launcher

Description	Filespec	Args	Cycle	Cycle Data	Frequency	Timing	Hide	Wait	Admin	Validation
testapp	arg	E	*	E	After	Visible	Continue	User	/G=!Accounting Group!/P=!Human Res	

Settings

Validation Logic

Validation

Type: ☐ NDI

Value:

Group Membership

Accounting Group

Add

Remove

OR AND

Operator	Type	Validation
IF	Group	Accounting Group
AND NOT	Primary Group	Human Resources Group
OR	UserOU	RD-*

Class

☒ Desktop
 ☒ Portable
 ☒ Tablet PC
 ☐ Term Serv. Client
 ☒ Member Server
 ☒ Domain Controller

OS

☒ 95 ☐ NT
 ☒ 98 ☒ 2000
 ☒ Me ☒ XP

Connection

☒ LAN ☒ Dialup

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FIG. 7

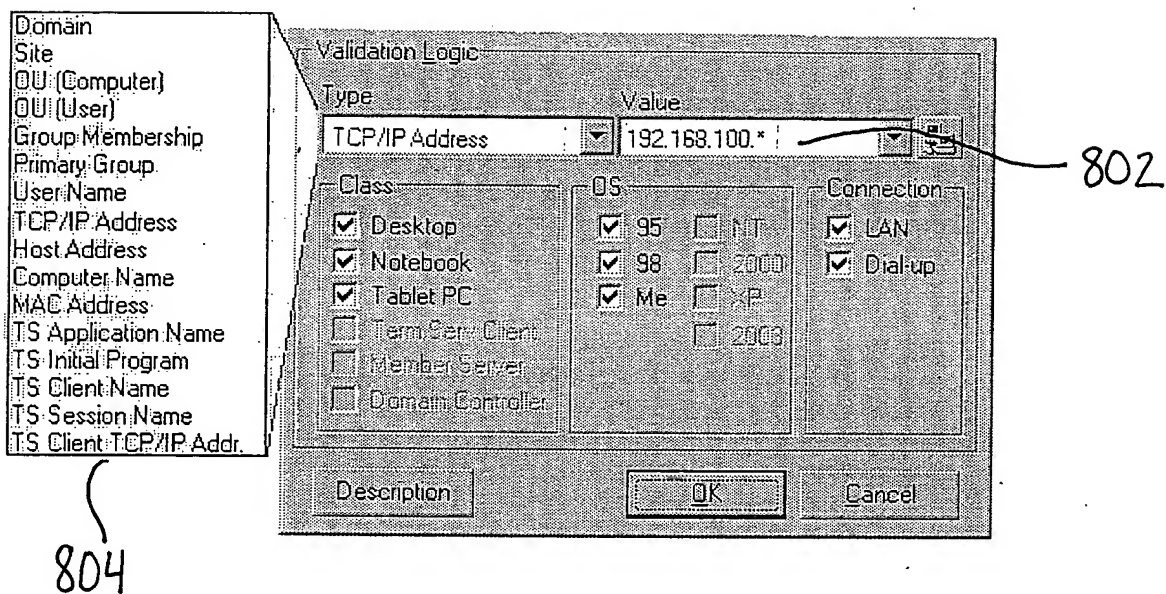


FIG. 8

FIG. 9

```

function slMultiCompare($StringA,$StringB)
; SL platforms: 4.01 ; LastRev: 2002-Aug-21
; dependencies: slWildCompare(), slQuestionCompare()
; compares one string to another, and supports '*' and '?' as wildcards
; stringA: constant string
; stringB: variable string
;         stringB can contain wildcards '*' and '?'
;         stringB can be an array or a single string containing multiple elements,
each separated by a semi-colon
dim $ArrayB, $elementB
$slMultiCompare=0 ; default false
if $StringA and $StringB
  $StringA=trim($StringA)
  if vartype($StringB)<8192 ; StringB is a string
    $ArrayB=split($StringB+',';',';') ; remove last ; added for split to achieve at least
one element
    redim preserve $ArrayB[ubound($ArrayB)-1]
  else ; StringB is an array
    $ArrayB=$StringB
  endif
  for each $ElementB in $ArrayB
    $ElementB=trim($elementB)
    select
      case $ElementB='*' ; single wildcard - matches everything
        $slMultiCompare=1
        return ; true
      case $StringA=$ElementB
        $slMultiCompare=1
        return ; true
      case instr($ElementB,'*')
        if slWildCompare($StringA,$ElementB)
          $slMultiCompare=1
          return ; true
        endif
      case instr($ElementB,'?')
        if slWildCompare($StringA,$ElementB)
          $slMultiCompare=1
          return ; true
        endif
      case 1 ; no wildcards and we've already determined that strings don't match
        ; do nothing - proceed to next array element
    endselect
  next
endif
endfunction

```

```

function slWildCompare($StringA,$StringB)
; SL platforms: 4.01 ; LastRev: 2002-Aug-21
; dependencies: slQuestionCompare()
; Do not call this function directly -- use slMultiCompare() instead
; compares one string to another, and supports wildcards
; stringA: constant string
; stringB: variable string (can contain wildcards '*' and '?')
; could add case-sensitivity option in future...
dim $LenStringA, $lenStringB, $QuestionLoc, $AsteriskLoc
dim $GlobArray, $lenGAE, $lenGAefirst, $lenGAElast, $GAUB
$slWildCompare=0 ; default to no match
if $StringA and $StringB
  $StringA=trim($StringA)
  $LenStringA=len($StringA)
  if $StringB='*' ; single wildcard - matches everything
    $slWildCompare=1
    return ;true
  endif
  if $StringA=$StringB ; exact match
    $slWildCompare=1
    return ;true
  else ; not exact match

```

```

    $asteriskLoc=instr($StringB,'*')
    $questionLoc=instr($StringB,'?')
    if not ($asteriskLoc or $questionLoc)
        return ; false: no wildcards - no reason to continue
    endif
    $lenStringB=len($StringB)
    $GlobArray=split($StringB+'*', '*')
    $GAUB=ubound($GlobArray)-1
    redim preserve $GlobArray[$GAUB] ; remove last * added for split to achieve at
least one element
    ; first Glob - special case test
    $lenGAefirst=len($GlobArray[0])
    if not slQuestionCompare(left($StringA,$lenGAefirst),$GlobArray[0])
        return ; false
    endif
    ; last Glob - special case test
    $lenGAelast=len($GlobArray[$GAUB])
    if not slQuestionCompare(right($StringA,$lenGAelast),$GlobArray[$GAUB])
        return ; false
    endif
    $StringA=substr($StringA,$lenGAefirst+1,len($StringA)-$lenGAelast) ; removed final
-1 (was failing on *abc*)
    if $GAUB<2 ; less than 2 Globs - preceeding special case tests determined result
        $slWildCompare=1
        return ; true
    endif
    for $index=1 to $GAUB-1 ; process elements 2 through next-to-last
        $lenGAE=len($GlobArray[$index])
        if len($StringA)<$lenGAE
            return ; false
        endif
        while len($StringA) and not
slQuestionCompare(left($StringA,$lenGAE),$GlobArray[$index])
            $StringA=substr($StringA,2)
        loop
        if not slQuestionCompare(left($StringA,$lenGAE),$GlobArray[$index])
            return ; false
        else
            $StringA=substr($StringA,$lenGAE+1)
        endif
    next
    $slWildCompare=1
endif
endif
endfunction

function slQuestionCompare($StringA,$StringB)
    ; SL platforms: 4.01 ; LastRev: 2002-Aug-21
    ; Do not call this function directly -- use slMultiCompare() or slWildCompare() instead
    ; compares one string to another, and supports '?' as a wildcard
    ; StringA - constant
    ; StringB - variable
    dim $index, $StringBchar
    $slQuestionCompare=1
    if $StringA and $StringB
        if $StringA=$StringB
            $slQuestionCompare=1 ; true
        else
            $slQuestionCompare=0 ; default no match
            if not instr($StringB,'?') ; no question marks
                return ; false
            else
                ; length of both strings must be same to continue
                if len($StringA)<>len($StringB) ; different lengths
                    return ; false
                endif
                ; perform comparison character-by-character
                for $index=1 to len($StringA)
                    $StringBchar=substr($StringB,$index,1)
                    if (substr($StringA,$index,1)<>$StringBchar) and $StringBchar<>'?'
                        return ; false
                    endif
                next
            endif
        endif
    endif
endfunction

```

```
endif
next
$slQuestionCompare=1 ; true
endif
endif
endif
endfunction
```

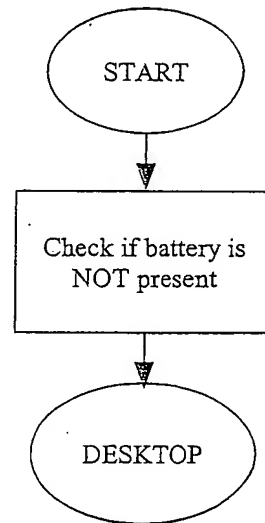
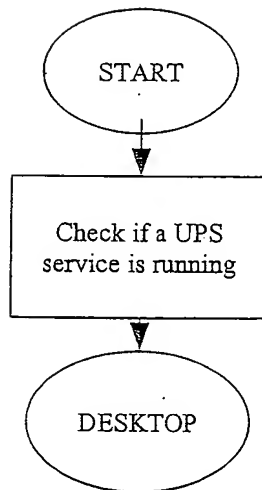
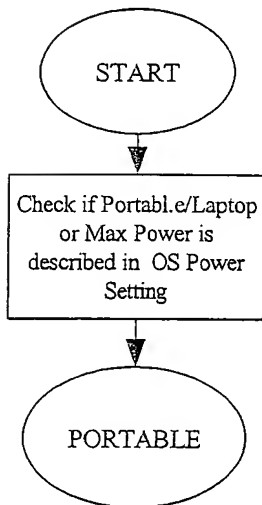
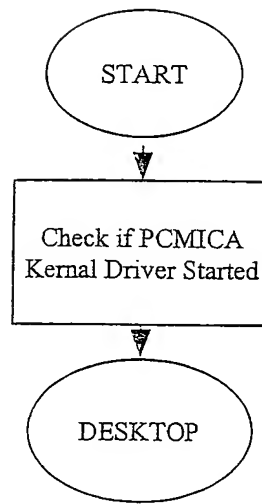
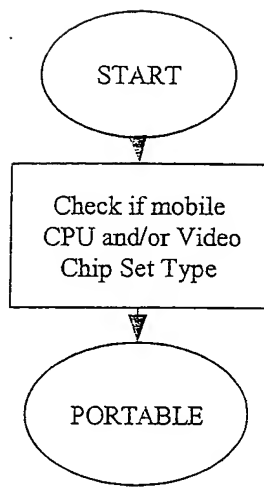


FIG. 10

FIG. 11 FLOW AND CASE STATEMENT

```

$CurrentPowerProfileValue=readvalue('HKCU\Control
Panel\PowerCfg','CurrentPowerPolicy')
$CurrentPowerProfileName=readvalue('HKCU\Control
Panel\PowerCfg\PowerPolicies\'+'$CurrentPowerProfileValue','Name')
select
    case instr($SiProcessorNameString,'mobile') ; Mobile CPU type
        ; highly confident that this is a portable computer!
        ; platforms tested on: XP
        $ClientClassRule='rule 1: Mobile CPU type -> portable'
        $SiComputerType='Portable'
        $ClientClass='Port'
    case @INWIN=1 and
0+readvalue('HKLM\System\CurrentControlSet\Services\pcmcia','Start')=4 ; NT & PCMCIA
kernel driver not started
        ; highly confident that this is a desktop computer!
        ; platforms tested on: NT, 2000, XP
        $ClientClassRule='rule 2: PCMCIA driver not started (NT) -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
    case @INWIN=2 and
''+readvalue('HKLM\System\CurrentControlSet\Control\InstalledFiles','PCCard.vxd')='' ; 9x
& PCMCIA kernel driver not started
        ; highly confident that this is a desktop computer!
        ; platforms tested on: 95, 98, Me
        $ClientClassRule='rule 3: PCMCIA driver not started (9x) -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
    case $OS<>'NT' and $SiBatteryState=128 ; no battery present
        ; fairly confident that this is a desktop computer (it could be a laptop with the
battery removed).
        ; platforms tested on:
        $ClientClassRule='rule 4: No system battery detected -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
    case slGetServiceStartup('UPS')='Automatic' ; Built-in UPS service on 2000/XP
        ; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)
        ; platforms tested on: XP, 2000
        $ClientClassRule='rule 5: built-in UPS service is automatic -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
    case slGetServiceStartup('LiebertM')='Automatic' ; Liebert MultiLink 3.0
        ; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)
        ; platforms tested on: XP, 2000
        $ClientClassRule='rule 6: Liebert MultiLink UPS service is automatic -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
    case slGetServiceStartup('APCPBEAgent')='Automatic' ; APC PowerChute Business
Edition 6.1
        ; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)
        ; platforms tested on: XP, 2000
        $ClientClassRule='rule 7: APC PowerChute Business Edition UPS service is
automatic -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
    case slGetServiceStartup('APC UPS Service')='Automatic' ; APC PowerChute Personal
Edition
        ; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)

```

```

; platforms tested on: XP, 2000
$ClientClassRule='rule 8: APC PowerChute Business Edition UPS service is
automatic -> desktop'
$SiComputerType='Desktop'
$ClientClass='Desk'
case $CurrentPowerProfileName='APC USB UPS'
; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)
; ***$$ what about other UPS brands? What about APC non-USB models?
; platforms tested on: XP, 2000
$ClientClassRule='rule 9: APC USB UPS power scheme -> desktop'
$SiComputerType='Desktop'
$ClientClass='Desk'
case $CurrentPowerProfileName='Portable/Laptop' or $CurrentPowerProfileName='Max
Battery'
; somewhat confident that this is a portable computer. This setting is user
profile-specific and can be changed
; platforms tested on: XP, 2000
$ClientClassRule='rule 10: portable/laptop or max battery power scheme ->
portable'
$SiComputerType='Portable'
$ClientClass='Port'
case 1
; At this point, here is what we know:
; Not a mobile CPU type
; The Portable/Laptop power scheme is not selected
; It does have PCMCIA sockets.
; 9x, 2000 & XP systems do not have a battery present
;
$ClientClassRule='rule 11: default -> portable'
$SiComputerType='Portable'
$ClientClass='Port'
endselect

```